



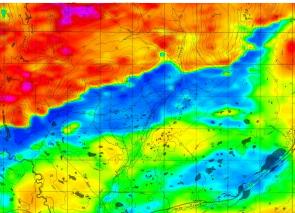




State of Alaska
Department of Natural Resources *Geospatial Mapping Status August 20, 2015*







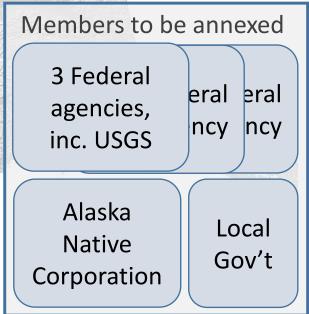


ALASKA GEOSPATIAL COUNCIL

DNR Comm. Mark Myers, chair

Part Marine





STATE OF ALASKA UPDATE

Alaska Geospatial Council

• Signed Memorandum of Agreement (initial members, Governor)

Geospatial Information Officer

• Established within the Dept. of Natural Resources

Upcoming fiscal year funding

Limited funds for mapping

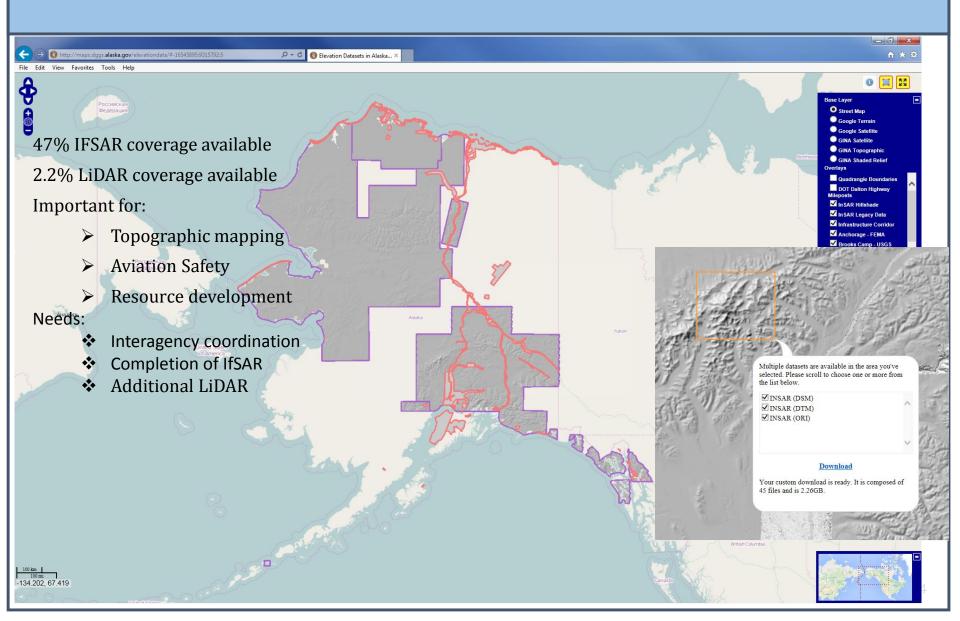
Statewide datasets

- 2.5-meter statewide imagery orthomosaic complete
- Regional hydrography stewardship model expanded statewide

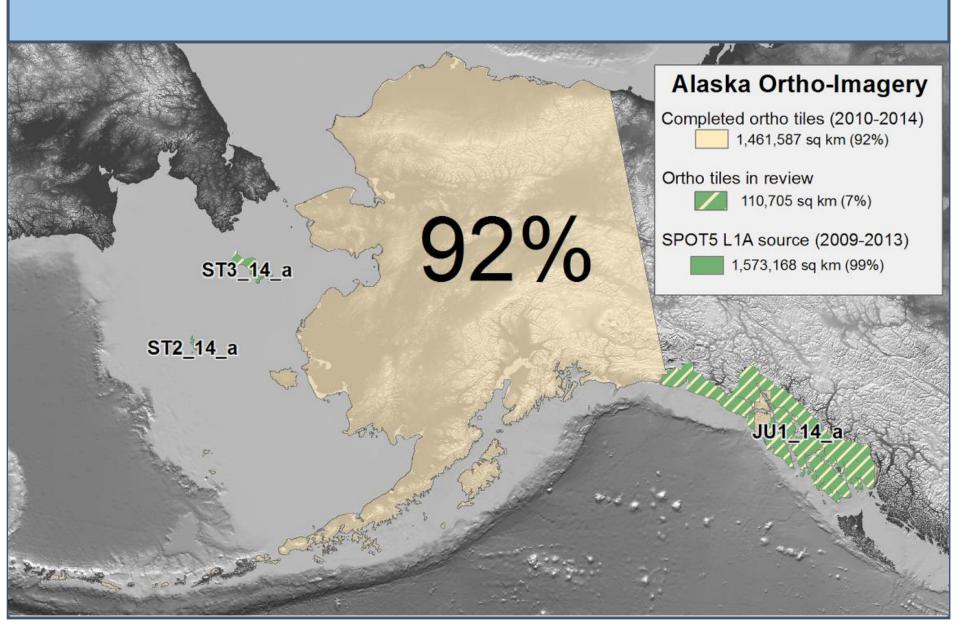
Alaska mapping and Arctic Policy

Mapping efforts support Arctic objectives

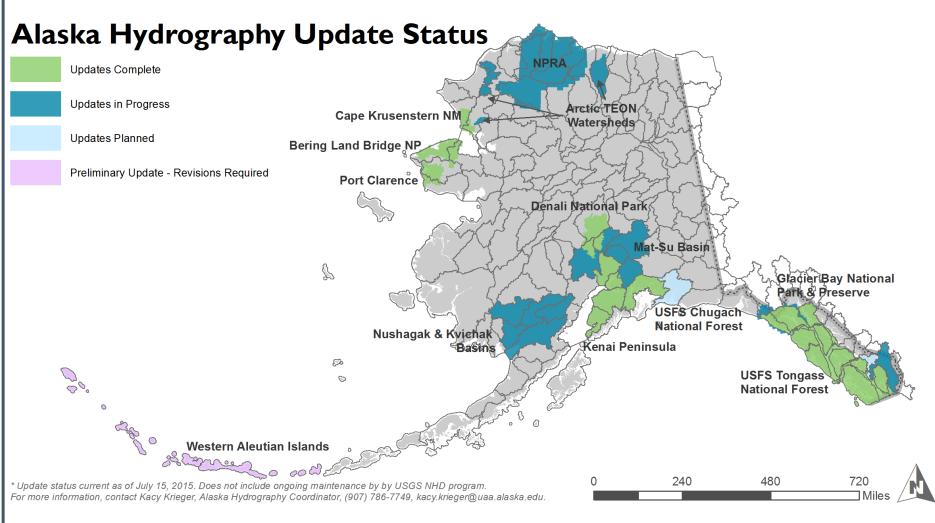
TOPOGRAPHY

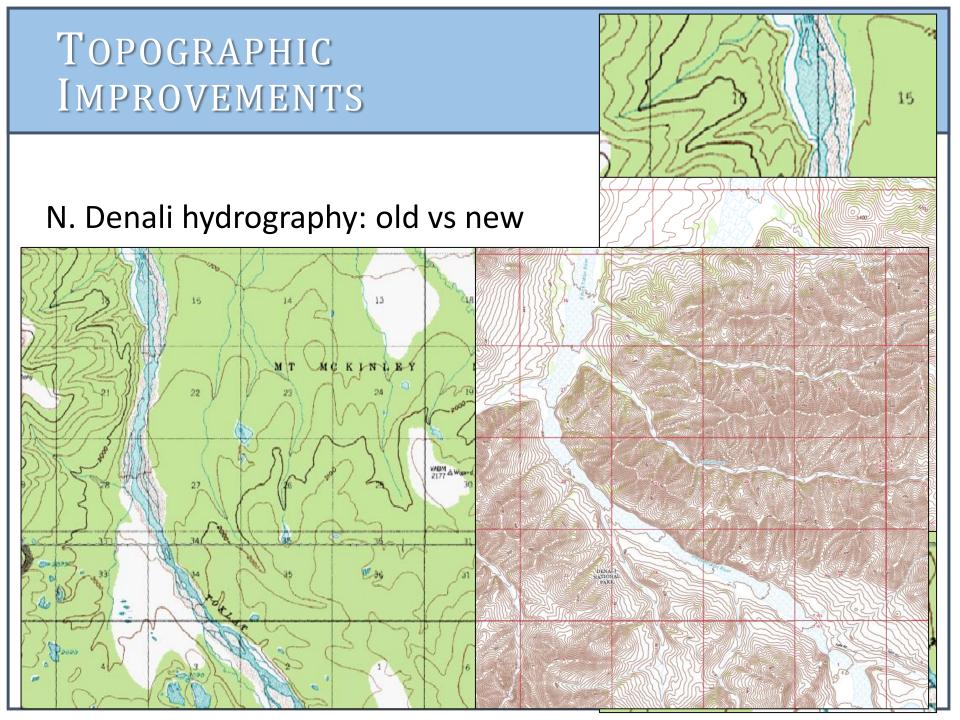


ORTHO-IMAGERY

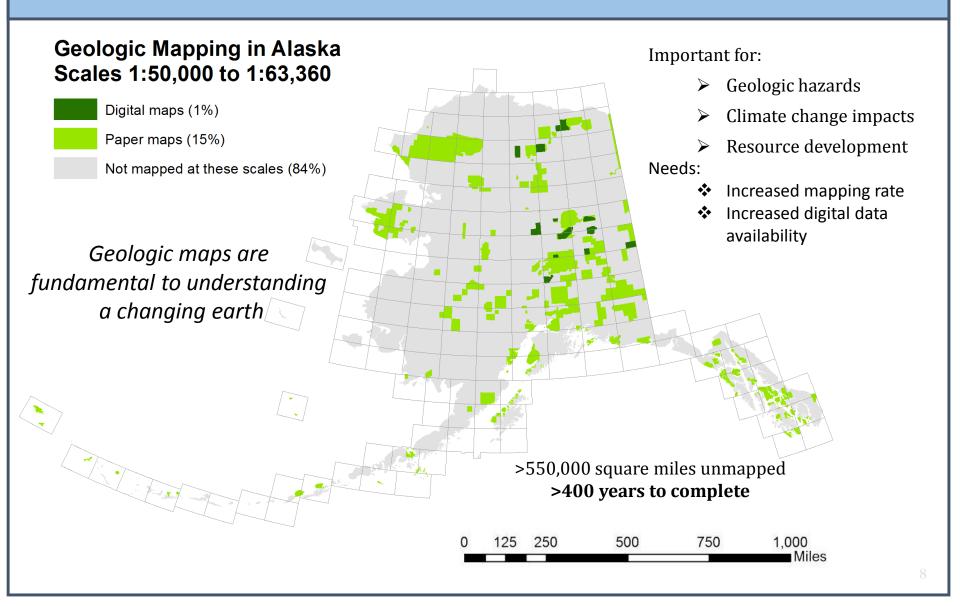


HYDROGRAPHY (AKHYDRO)

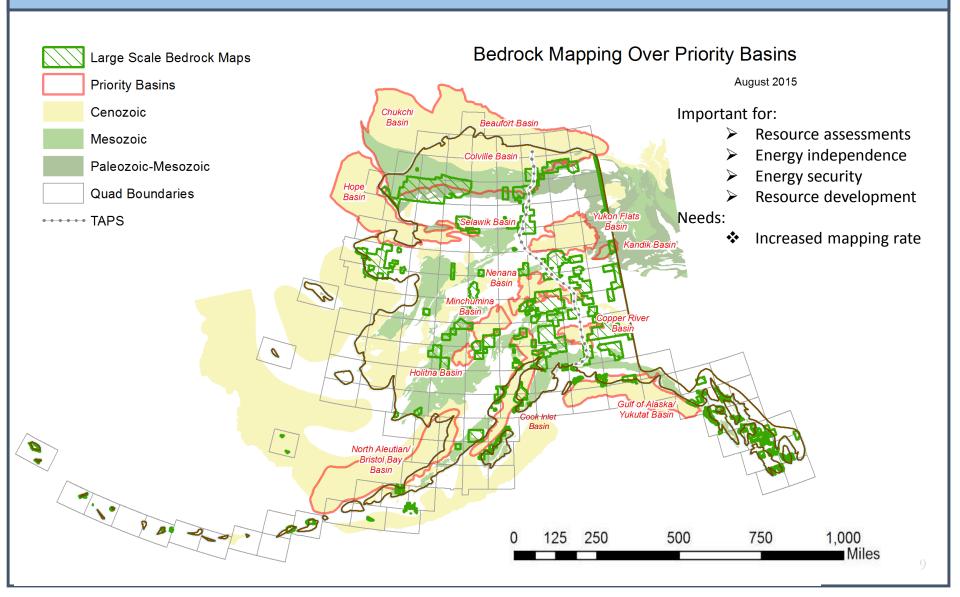




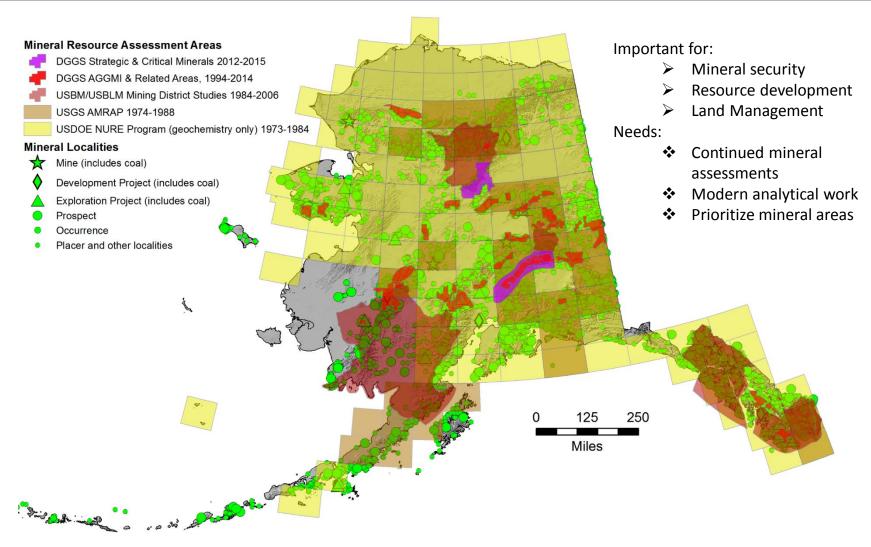
GEOLOGIC MAPPING



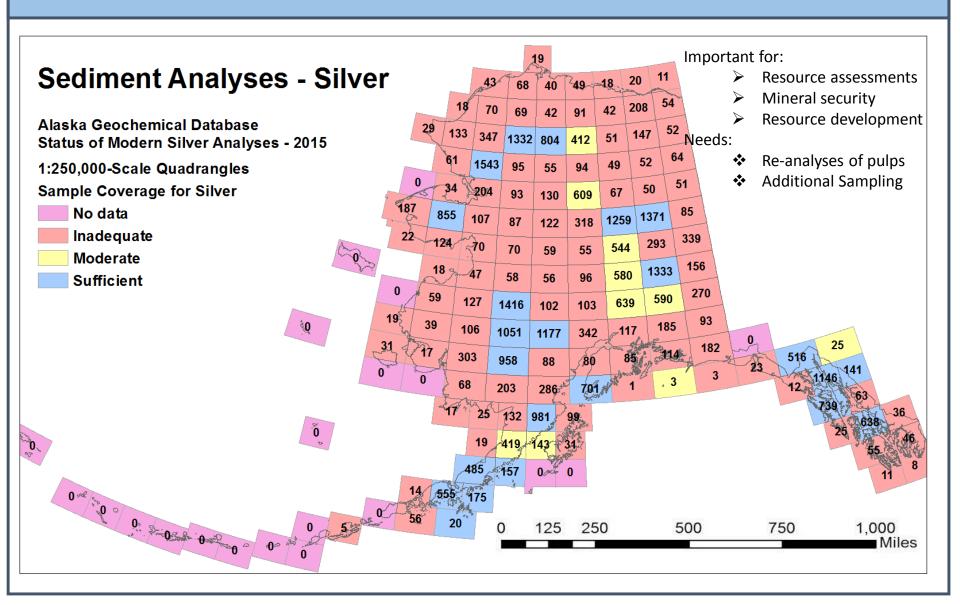
FOSSIL ENERGY BASINS



MINERAL RESOURCES



GEOCHEMISTRY



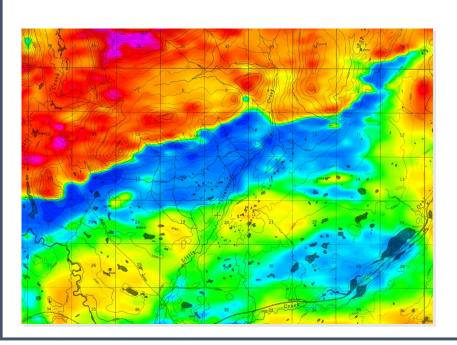
GEOPHYSICS & REMOTE SENSING

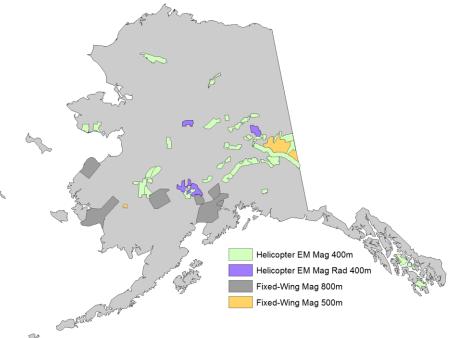
Important for:

- Geologic mapping
- Mineral security
- Resource development

Needs:

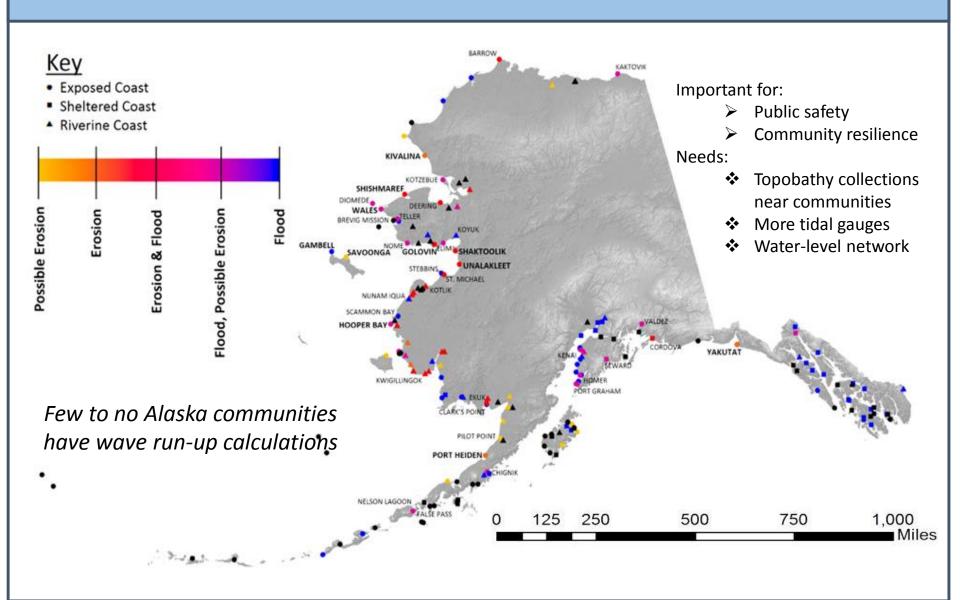
Increased rate of data acquisition



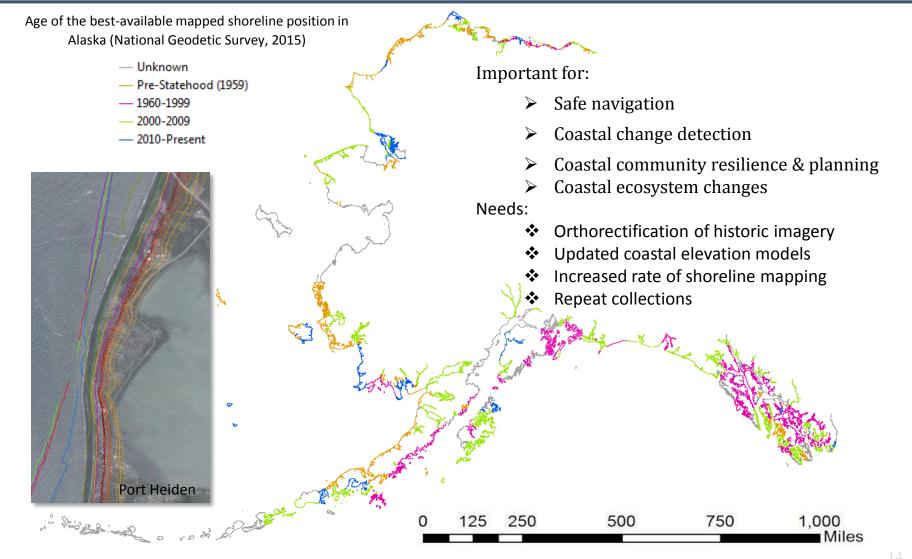


- 4% State coverage magnetics
- 20% of high potential areas flown
- Less coverage for electromagnetic and radiometric data
- 0% coverage with hyperspectral (First surveys - USGS-2014/2015)

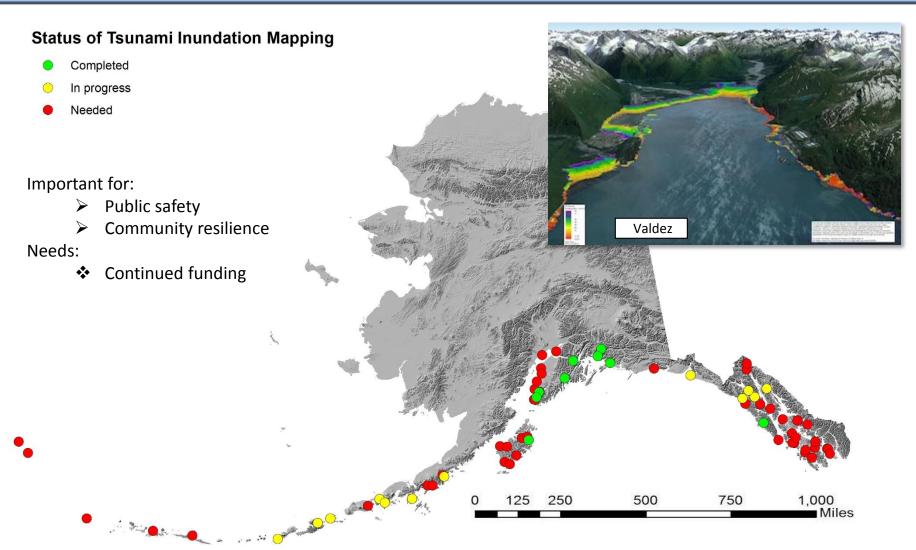
STORM SURGE VULNERABILITY



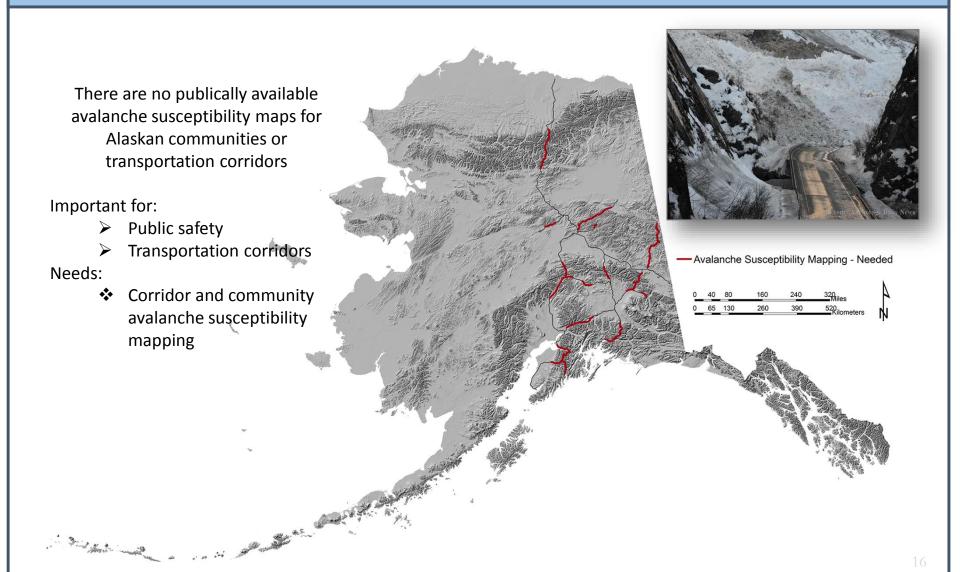
SHORELINE CHANGE



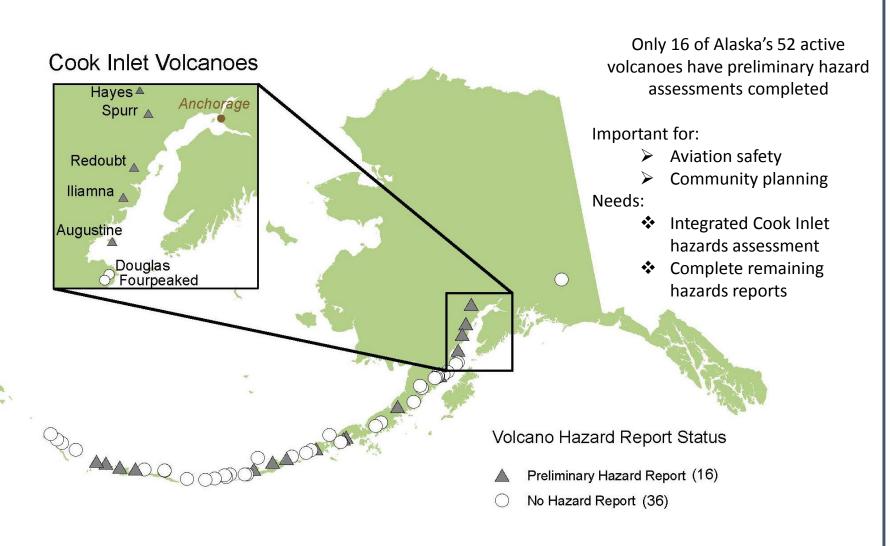
TSUNAMI INUNDATION MAPS



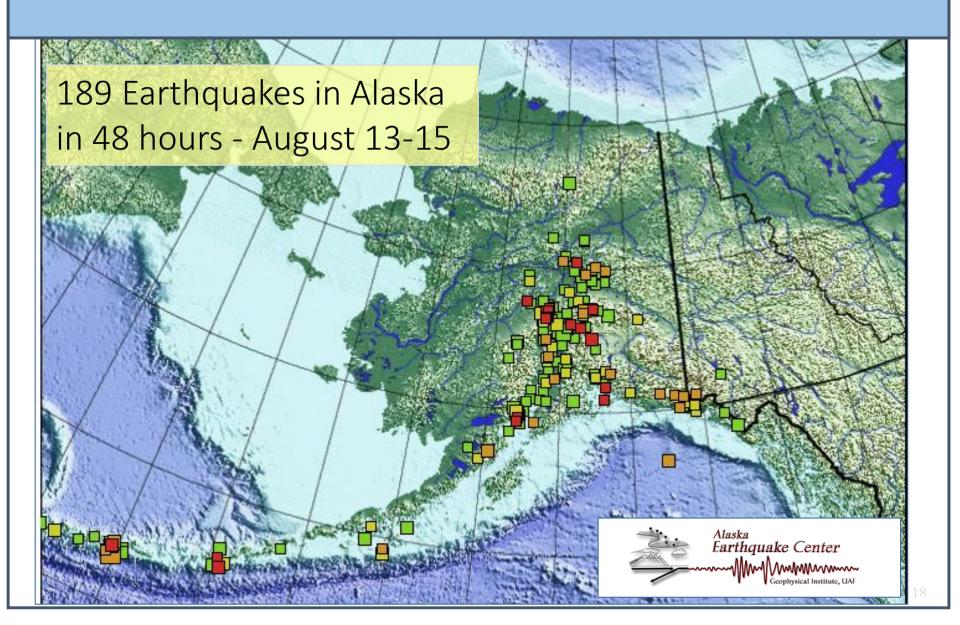
AVALANCHE MAPPING



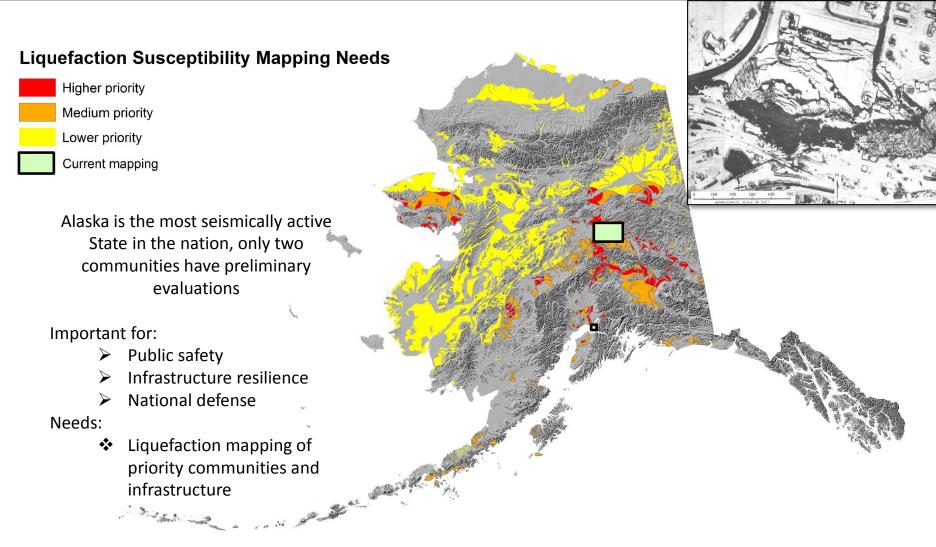
VOLCANIC HAZARD ASSESSMENTS



SEISMIC RISK



LIQUEFACTION MAPPING



LANDSLIDE MAPPING



August 18, 2015 Sitka Landslide; homes destroyed, 3 people missing

Landslide mapping of communities and infrastructure is critically inadequate

Important for:

- Public safety
- > Infrastructure resilience

Needs:

 Community and infrastructure landslide mapping

